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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/835,625	04/17/2001	Kenichiro Sakai	121.1012	7047
21171	7590 04/21/2005		EXAMINER	
STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W.			FRANKLIN, JAMARA ALZAIDA	
			ART UNIT	PAPER NUMBER
WASHINGTO	N, DC 20005		2876	-
			DATE MAILED: 04/21/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/835,625	SAKAI ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Jamara A. Franklin	2876				
Period fo	The MAILING DATE of this communication Reply	on appears on the cover sheet wi	th the correspondence address				
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA' nisions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communicate period for reply specified above is less than thirty (30) day of period for reply is specified above, the maximum statutor are to reply within the set or extended period for reply will, the reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	FION. CFR 1.136(a). In no event, however, may a retion. s, a reply within the statutory minimum of thirt y period will apply and will expire SIX (6) MON by statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status							
1) 又	Responsive to communication(s) filed or	n 08 March 2005.					
	_	This action is non-final.					
3)			ers, prosecution as to the merits is				
•—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠	Claim(s) 1-20 is/are pending in the appli	cation.					
,—	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	Claim(s) is/are allowed.						
6)🖂	⊠ Claim(s) <u>1-20</u> is/are rejected.						
7)							
8)□	Claim(s) are subject to restriction and/or election requirement.						
Applicat	ion Papers						
9)□	The specification is objected to by the Ex	caminer.					
•	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by						
Priority :	under 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for t ☐ All b)☐ Some * c)☐ None of:	oreign priority under 35 U.S.C. §	119(a)-(d) or (f).				
	1. Certified copies of the priority doc	uments have been received.					
	2. Certified copies of the priority doc	uments have been received in A	pplication No				
	3. Copies of the certified copies of the	ne priority documents have been	received in this National Stage				
	application from the International	, , , ,					
* (See the attached detailed Office action fo	r a list of the certified copies not	received.				
 -			N .				
Attachmer	· ·	Λ □ 1_1	(PTO 412)				
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-		ummary (PTO-413) s)/Mail Date				
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or PTC	/SB/08) 5) D Notice of Ir	formal Patent Application (PTO-152)				
Pape	er No(s)/Mail Date	6)	<u> </u>				

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DETAILED ACTION

Acknowledgment is made of the amendment received on 3/08/05. Claims 1-20 are currently pending.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-5, 9-14, and 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Chandler et al. (US 5,296,690) (hereinafter referred to as 'Chandler').

Chandler teaches an apparatus extracting two-dimensional code from an input document, comprising:

an image scanner scanning the document, and outputting input image (48) data; and a programmed computer processor connected to said image scanner and controlling the apparatus according to a two-dimensional code extraction process, comprising:

scanning said input image data in a square block unit of MxN pixels (M and N are positive integers) (col. 6, lines 12-23),

detecting blocks (49) that satisfy specific conditions from said scanned blocks,

detecting one or more two-dimensional code regions corresponding to respective one or

more two-dimensional codes, each two-dimensional code region comprising a number of

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neighboring and contiguous blocks (49) from among said detected blocks that satisfy specific conditions from said scanned blocks (col. 8, lines 10-24), and

extracting the one or more two-dimensional codes from among the detected two-dimensional code regions that have more than a predetermined number of neighboring and continuous blocks (col. 9, lines 19-34);

wherein a block that includes a ratio of white pixels and black pixels that falls within a specific range is detected as a block (49) satisfying said specific conditions (col. 6, lines 12-23);

wherein a block that includes a ratio between transition points of pixels within horizontal lines or vertical lines of the block and a total number of pixels of the block that falls within a specific range is detected as a block satisfying said specific conditions (col. 7, lines 24-38 and col. 7, line 52- col. 8, line 3);

wherein a block in which variation of vertical or horizontal projection of black pixels included in each line in the block falls within a specific range is detected as a block satisfying said specific conditions (col. 6, lines 24-34);

the method further comprising:

detecting a two-dimensional code region comprising a maximum number of detected neighboring and contiguous blocks from among the detected two-dimensional code regions; and the method further comprising:

detecting a two-dimensional code region comprising a maximum number of detected contiguous blocks (49) from among the detected two-dimensional code regions.

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Allowable Subject Matter

3. Claims 6-8 and 15-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 6 and 15, the prior art of record fails to teach, or fairly suggest either alone or in combination thereof, the method of extracting a square area including the detected position as the two-dimensional code region. No motivation has been found to combine a reference teaching the aforementioned element to arrive at the claimed invention;

Regarding claims 7 and 16, the prior art of record fails to teach, or fairly suggest either alone or in combination thereof, the method of calculating average distance between pairs of black pixels within the scanned blocks and extracting a scanned block as a detected block satisfying the specific conditions, when a determination is made that the calculated average distance exceeds a predetermined value. No motivation has been found to combine a reference teaching the aforementioned element to arrive at the claimed invention; and

Regarding claims 8 and 17, the prior art of record fails to teach, or fairly suggest either alone or in combination thereof, the method of determine an angle of inclination of a detected two-dimensional code region; and correcting the angle of inclination, if the angle of inclination exceeds a specific value. No motivation has been found to combine a reference teaching the aforementioned element to arrive at the claimed invention.

Response to Arguments

5. Applicant's arguments filed 3/08/05 have been fully considered but they are not persuasive.

In response to the argument that the Chandler fails to teach the extraction of multiple two-dimensional codes from an image by determining multiple regions of detected neighboring and continuous blocks, the examiner submits that the claim language (i.e. detecting one or more two-dimensional code regions corresponding to respective one or more two dimensional codes) provides an alternative to the multiple regions discussed in the arguments, in that, multiple regions corresponding to multiple codes may be detected or one region corresponding to one code may be detected. Chandler teaches that one region corresponding to one code is detected.

In response to the argument that Chandler uses a region growing technique to locate a region of bar code activity from the computed location scores and does not teach "detecting... each two-dimensional code region comprising a number of neighboring and continuous blocks from among said detected blocks that satisfy specific conditions from said scanned block", the examiner submits that the region growing technique reads upon the claimed aforementioned limitation in that the region of the region growing technique is derived from detected cells 49 (blocks) that have a particular cell score (satisfy specific conditions).

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jamara A. Franklin whose telephone number is (571) 272-2389. The examiner can normally be reached on Monday through Friday 8:00am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Lee can be reached on (571) 272-2398. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jamara A. Franklin

Examiner
Art Unit 2876

JAF April 7, 2005

> DIANE I. LEE PRIMARY EXAMINER